Title 33 ENVIRONMENTAL QUALITY

Part VII. Solid Waste

Chapter 14. Composting Facilities

such solid waste);

§1401. Part I: Permit Application Form

The applicant shall complete a standard permit application Part I Form (Appendix B). The following subsections refer to the items on the form requiring that information: name of applicant (prospective permit holder) applying for a standard permit; B. facility name; C. description of the location of the facility (identify by street and number or by intersection of roads, or by mileage and direction from an intersection); geographic location (section, township, range, and parish where the facility is located, and the coordinates [as defined by the longitude and latitude to the second] of the centerpoint of the facility); E. mailing address of the applicant; contact person for the applicant (position or title of the contact person is F. acceptable); G. telephone number of the contact person; type and purpose of operation (check each applicable box); Н. status of the facility (if leased, state the number of years of the lease and provide a I. copy of the lease agreement); operational status of the facility; K. total site acreage and the amount of acreage that will be used for processing and/or disposal: L. list of all environmental permits that relate directly to the facility represented in this application; a letter attached from the Louisiana Resource Recovery and Development Authority (LRRDA) stating that the operation conforms with the applicable statewide plan. (Note: In accordance with R.S. 30:2307.B, this regulation does not apply to solid waste disposal activity occurring entirely within the boundaries of a plant, industry, or business which generates

zoning of the facility (if the facility is zoned, note the zone classification and

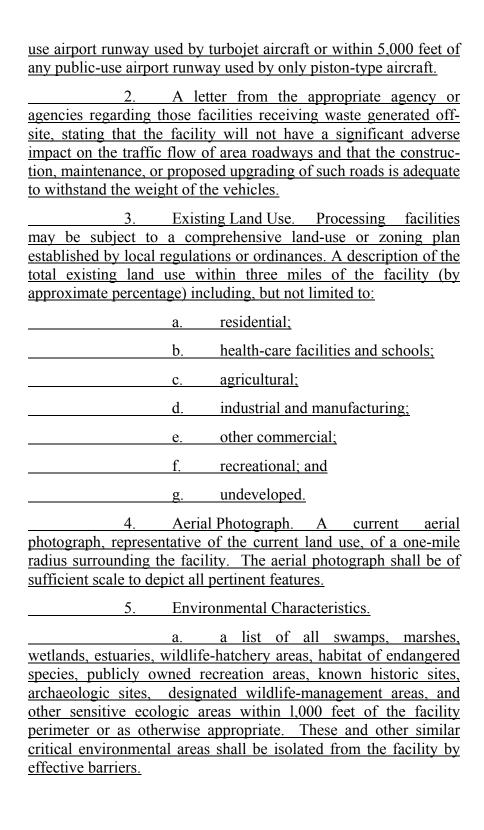
does

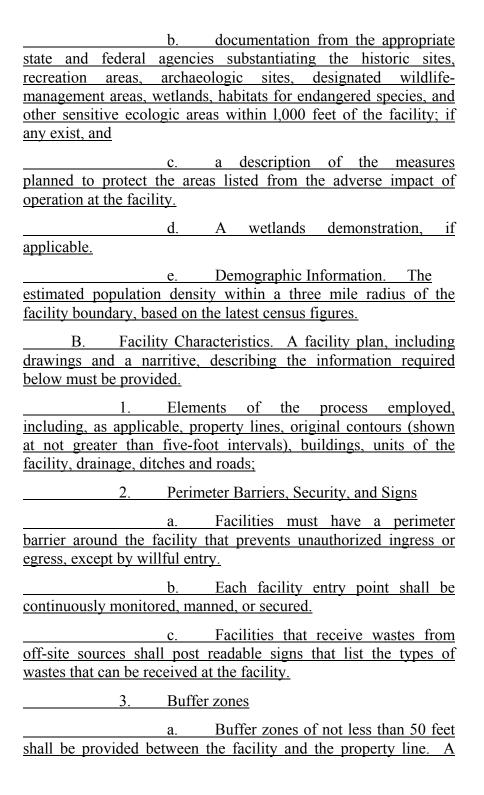
zoning authority, and include a zoning affidavit or other documentation stating that the proposed

- not violate existing land-use requirements); types, maximum quantities (wet tons/week), and sources (percentage of the on-site or off-site-generated waste to be received) of waste to be processed or disposed of by the facility; indicate the specific geographic area(s) to be serviced by the solid waste facility; attach proof of publication of the notice regarding the submittal of the permit application as required in LAC 33:VII.513.A; R. provide the signature, typed name, and title of the individual authorized to sign the application. Proof of the legal authority of the signatory to sign for the applicant must be provided; and any additional information required by the S. administrative authority. AUTHORITY NOTE: Promulgated in accordance with R.S.30:2001 et seg. HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Solid Waste Division, LR 19:187 (February 1993).§1403 Part **II: Supplementary Information** All responses and exhibits must be identified in the following sequence to facilitate the evaluation. If a section does not apply, the applicant must state that it does not apply and explain why. Location Characteristics. Area Master Plans—A location map showing the facility, road network, major drainage systems, drainage-flow patterns, location of closest population center(s), location of the public-use airport(s) used by turbojet aircraft or piston-type aircraft, proof of notification of affected airport and Federal Aviation Administration, location of the 100-year flood plain, and other pertinent information. The scale of the maps and
- a. Facilities that compost putrescible solid waste shall not be located within 10,000 feet of any public-

drawings must be legible, and engineering drawings or USGS

maps are required.



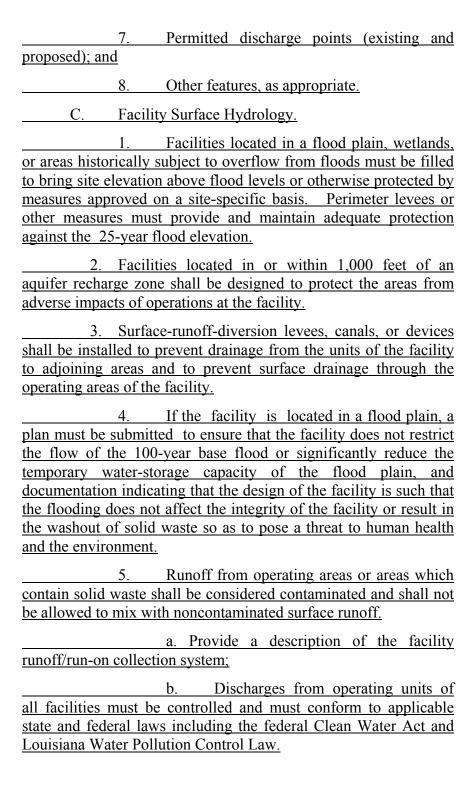


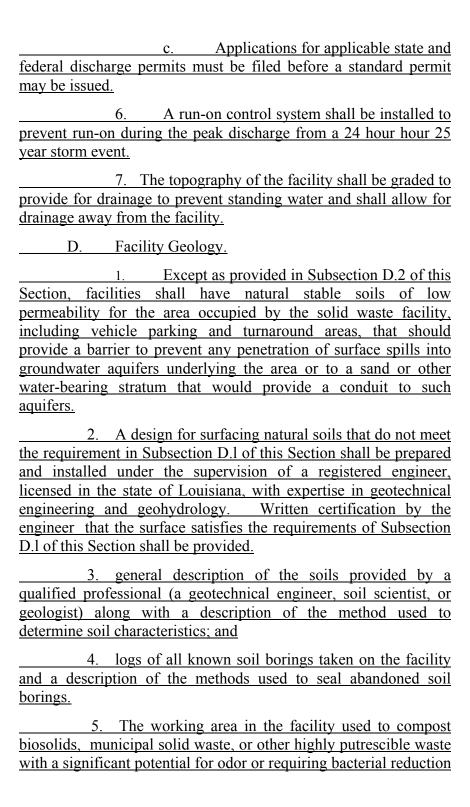
reduction in this requirement shall be allowed only with the permission, in the form of a notarized affidavit, of the adjoining landowner(s) including all landowners if in *in division*. A copy of the notarized affidavit waiving the 50-foot buffer zone shall be entered in the mortgage and conveyance records of the parish for the adjoining landowner's property. Buffer zone requirements may be waived or modified by the administrative authority in accordance with LAC 33:VII.307.

Composting facilities which receive sewage sludge, septage, residential, or commercial waste must have a 200 feet buffer-zone. No storage, processing, or disposal C. of solid waste shall occur within the buffer zone. Fire Protection and Medical Care. facilities shall have access to required fire protection and medical care, or such services shall be provided internally. Landscaping. All proposed facilities, other than those that are located within the boundaries of a plant, industry, or business that generates the waste to be processed, must provide landscaping to improve the aesthetics of the facility. Receiving and Monitoring Incoming Wastes Each processing or disposal facility a. shall be equipped with a device or method to determine quantity (by wet-weight tonnage), sources (whether the waste was generated in-state or out-of-state), and types of incoming waste. The facility shall also be equipped with a device or method to control entry of the waste and prevent entry of unrecorded or unauthorized deliverables (i.e., hazardous, unauthorized, or unpermitted solid waste). Each processing or disposal facility

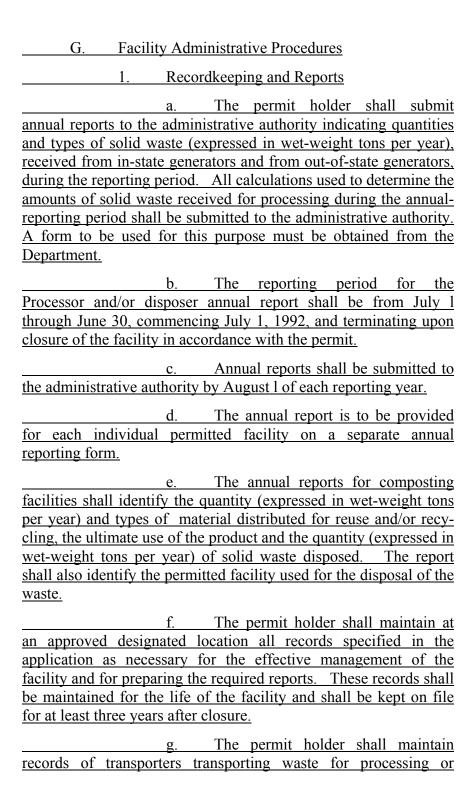
shall be equipped with a central control and recordkeeping system for tabulating the information required in Subsection B.5.a. of

this Section.





shall have hard surfacing to provide for working in wet weather. The site shall be located on stable soils capeable of being compacted to support the equipment being used.					
E. Facility Plans and Specifications.					
1. Certification— Plans, specifications, and operations represented and described in the permit application or permit modifications for all facilities must be prepared under the supervision of and certified by a registered engineer, licensed in the state of Louisiana. The person who prepared the permit application must provide the following certification: "I certify under penalty of law that I have personally available and I are familiar with the information."					
personally examined and I am familiar with the information submitted in this permit application and that the facility as described in this permit application meets the requirements of the Solid Waste Rules and Regulations. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment."					
2. Levee Construction					
a. Levees or other protective measures must be constructed adjacent to the facility in order to provide an adequate freeboard above the 25-year flood elevation.					
b. The perimeter levees of all facilities					
shall be engineered to minimize wind and water erosion and shall have a grass cover or other protective cover to preserve structural					
integrity.					
3. Leachate Management					
a. Leachate produced in the					
composting process must be collected and treated or disposed of at					
a permitted facility; or					
b. leachate may also be reused in the					
composting process as a source of moisture.					



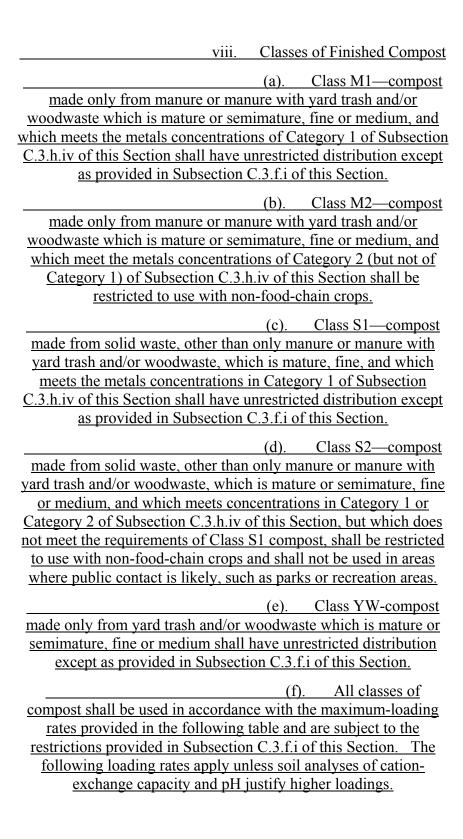
disposal. The records shall include the date of receipt of shipments of waste and the transporter's solid waste identification number issued by the Department.					
h. Records kept on site for all facilities shall include, but not be limited to:					
i. copies of the applicable Louisiana Solid Waste Rules and Regulations;					
ii. the permit;					
iii. the permit application; and					
iv. permit modifications.					
2. Personnel—an estimate of the minimum personnel, listed by general job classification, required to operate the facility.					
a. Facilities shall have the personnel					
b. Type III facilities receiving solid waste for composting shall have the number and levels of certified operators employed at the facility as required by the Louisiana Administrative Code, Title 46, Part XXIII. Operator certificates shall be prominently displayed at the facility. The Board of Certification and Training for Solid Waste Disposal System Operators and the Department shall be notified within 30 days of any changes in the employment status of certified operators.					
3. maximum days of operation per week and per facility operating day (maximum hours of operation within a 24-hour period).					
H. Facility Operational Plans					
1. Facility Limitations					
a. The receipt of hazardous waste shall					
be strictly prohibited and prevented. Any other wastes that present special handling or disposal problems may be excluded by the administrative authority.					

b.	Open	burning sh	all not be	e prac	cticed.
c.	Salva	ging shall	be preve	ented	unless
approved by the administrat	ive auth	ority.	-		
d.	Scave	nging shall	be prev	ented	<u>l.</u>
e.	The	following	types	of	wastes
require a Type III composting	ng perm	<u>it:</u>	-		
	i.	sewage :	sludge o	r sep	tage as
defined in LAC 33:VII.ll5;					_
	ii.	residenti	al or	com	mercial
solid waste as defined in LA	C 33:V	II.115;			
	iii.	other	materials	3 (deemed
acceptable by the administra	tive aut	<u>hority.</u>			
f.	The p	rocessing	of infec	tious	waste
and asbestos wast					
prevented.					
<u>g</u> .	No so	lid waste s	shall be	depos	sited in
standing water.					
h.	Yard to	rash, woo	dwaste,	agric	cultural
processing and pr					
bedding, or other			_		-
adminstrative athour	_	•			
Management Practic	-	-			-
the Department of A	gricultu	ire and adn	ninsterec	una	er their
jurisdiction.					
2. Facili					
plans shall be provided wh					
waste will be managed duri	<u> </u>		ocessing	g oper	<u>rations.</u>
At a minimum, the plan shal	ll addres	<u>ss:</u>			
a.	the ro	ute the wa	ste will	follo	w after
receipt;					
b.	the se	quence in	which th	e wa	ste will
be processed within a unit;					

c. the method and operational changes
that will be used during wet weather (particular attention should be
given to maintenance of access roads and to water management);
and and
d. the recordkeeping procedures to be
employed to ensure that all pertinent activities are properly
documented.
3. Facility Operational Standards
a. Composting facilities which receive
domestic septage or sewage sludge from publicly owned treatment
works shall require the waste be tested for toxicity characteristics
leachate procedure (TCLP) analysis and priority pollutants prior to
acceptance of the waste and annually for two years following
acceptance. Each year thereafter, the generator must certify that
the waste remains unchanged.
b. The operation of composting
facilities shall be by methods which result in the aerobic,
biological decomposition and stabilization of the organic material
received.
c. The facility must be designed and operated to control vectors, odors, dust, and litter.
operated to control vectors, odors, dust, and fitter.
d. The operation of the composting
facility must maintain aerobic conditions, minimize odors, produce
a compost product acceptable to the administrative authority.
e. The compost must meet PFRP
standards.
f. The facility must include areas for
the following operations:
(a). receiving, mixing,
composting, curing, compost storage, drying, screening, and truck
wash area located on surfaces capable of preventing groundwater
contamination (periodic inspections of the surface shall be made to
ensure that the underlying soils and the surrounding land surface
are not being contaminated);

	(b).	runoff	collection			
system; and						
(c). leachate collection and on-site/off-site treatment system if the leachate or runoff is to be discharged and not reused in the composting process						
h. Compost produced in or offered for sale in Louisiana shall be classified based on the type of waste processed, compost maturity, and recommended use The following characteristics shall be used:						
i.	Comp	ost Maturity	<u>y</u>			
matter—raw material before und beginning of process).			organic ition (or at			
	(b).	fresh	compost—			
organic matter that has been thro has undergone partial decomposition	ough the		ic stage and			
compost—compost material that has passed through the thermophilic stage and is in the mesophilic stage.						
(d). mature compost—a highly stabilized product which results from exposing compost to a prolonged period of humidification and mineralization, beyond the stage of maturity. Mature compost shall have						
determined by using percantages of screen set.	Partice Partica Partice Partice Partice Partice Partice Partice Partice Partic	le size terial passin	shall be ag a standard			
iii. The moisture content in the finished compost shall not exceed 45 55 percent (by weight). The moisture content shall be determined by using the Environmental Protection Agency's approved methods.						
iv. Concentration Levels (shown in mg/kg in dry weight) of finished compost:						
	gory I	<u>Category</u>	<u>, 2</u>			

<u>Cadmium</u>	<u><15</u>	<u>15 - 25</u>				
<u>Copper</u>	<u><450</u>	<u>450 - 1000</u>				
<u>Lead</u>	<u><200</u>	<u> 200 - 800</u>				
<u>Nickel</u>	<u><50</u>	<u>50 - 100</u>				
<u>Zinc</u>	<u><1000</u>	<u> 1000 - 2000</u>				
	i. Finis	shed Compost				
be accompanied with minimum, the type of was any restriction on the sewage sludge, septage,	i. The finished compost shall be sufficiently stable that it can be stored or applied to land without causing a health hazard, detriment, or nuisance to the environment as determined by the administrative authority. ii. All distributed compost must be accompanied with a label or leaflet which indicates, at a minimum, the type of waste from which the compost was derived, any restriction on the use of the product, and recommended application rates. iii. Compost derived from sewage sludge, septage, or residential or commercial waste must meet the criteria of the process to further reduce pathogens (Appendix E).					
solid waste which cannot shall be reprocessed or	ot be used pursudisposed of in a facility.	n approved solid waste				
composting facility shall disposed of at a permittee	be used as comp					
methods shall be the Envi		ne sampling and testing action Agency's approved				
the state of Louisiana, state, shall comply with	which is used or	•				



Maximum Applied Metal (lb/acre)

<u>500</u>
<u>250</u>
<u>125</u>
<u>125</u>
<u>5</u>

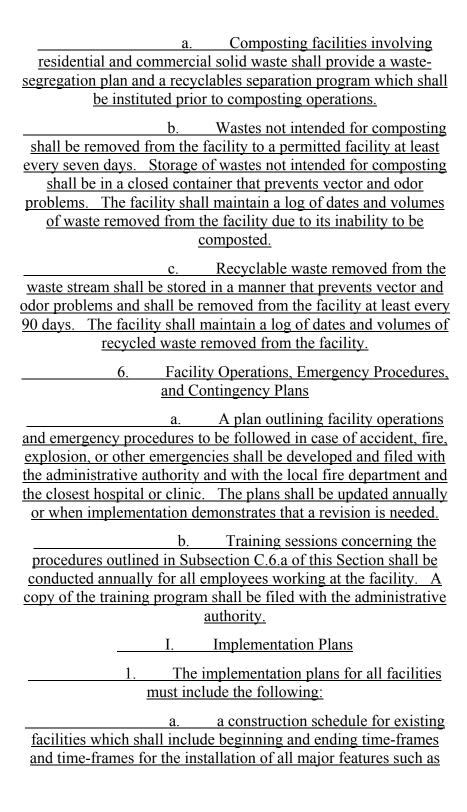
ix. Testing of Finished Compost.

Composite samples of batches produced at compost facilities shall be analyzed in accordance with SW-846 at intervals of every three months for the following parameters:

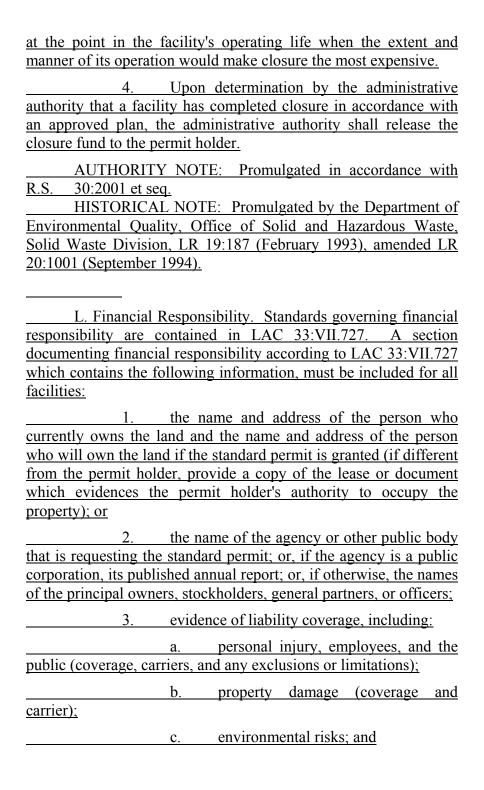
(a). moisture;
(b). total nitrogen;
(c). total phosphorus;
(d). total potassium;
(e). pH;
(f). cadmium;
(g). copper;
(h). lead;
(I). nickel;
(j). zinc;
(k). fecal coliform
(analyze in accordance with Standard Methods for the Examination of Water and Wastewater, 18th edition).
4 CCC

4. Sufficient equipment shall be provided and maintained at all facilities to meet the facility's operational needs.

Segregation of Waste



monitoring wells and liners. (Time-frames must be specified in
days, with day one being the date of standard permit issuance); and
b. details on phased implementation if any proposed facility is to be constructed in phases.
AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2001 et seq.
HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Solid Waste Division, LR 19:187 (February 1993).
J. Facility Closure Requirements
1. Notification of Intent to Close a Facility. All permit holders shall notify
a. date of planned closure, if known;
b. changes, if any, requested in the approved closure plan; and
c. closure schedule and estimated cost.
2. Closure Requirements
a. An insect and rodent inspection is required before closure. Extermination measures, if required, must be provided.
b. All remaining waste shall be removed to a permitted facility for disposal.
c. The permit holder shall verify that
the underlying soils have not been contaminated in the operation of
the facility. If contamination exists, a remediation/removal program must be provided to the administrative authority.
3. The closure plan must include the following:
a. the date of final closure;
b. the method to be used and steps
necessary for closing the facility; and
c. the estimated cost of closure of the
facility, based on the cost of hiring a third party to close the facility



	4.	ev	idence	of	a	financ	ial	assurance
<u>mechanism</u>	for	closure	and/or	post-c	closure	e care	and	corrective
action for k	nown	releases	s when i	needed	<u>l.</u>			
								<u>ninistrative</u>
<u>authority m</u>	nay re	quire ad	ditional	linfor	matior	n for sp	pecial	processes
or systems	and fo	r supple	ementar	y envi	ronme	ntal an	alysi	<u>S.</u>
AU'	THOF	RITY N	OTE:	Prom	ulgate	d in a	ccord	lance with
R.S. 30:2	2001 e	t seq.			_			
HIS	TORI	CAL N	OTE: F	romul	gated	by the	Depa	rtment of
Environme	ntal Q	uality, (Office o	f Solid	and I	Hazard	ous V	Vaste,
Solid Wast	e Divi	sion, LF	R 19:18′	7 (Febi	ruary	1993),	amen	ded LR
19:1143 (September 1993) §1405. Part III: Additional								
Supplementary Information								
The	follo	wing suj	oplemer	ntary in	nforma	ation is	requ	ired for all
solid		waste			proces	ssing		and
					_			

